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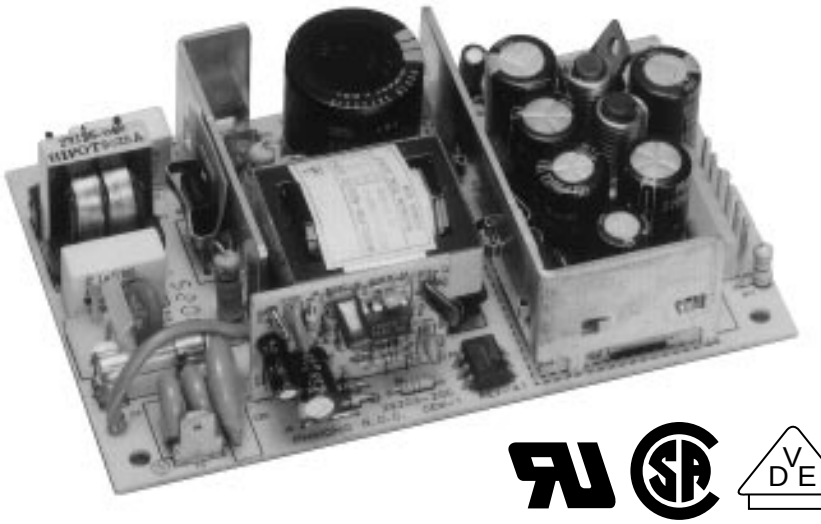
40W Universal Input Series

PSA-4031 Series Switching Power Supply



Features

- High efficiency
- Built-in EMI filter
- 100% Burn-in for 24hrs.
- Over voltage protection
- Short circuit protection
- UL/CSA/VDE approval

Applications

- Disk drive systems
- Peripheral equipment
- Test equipment
- Microprocessor based systems

Safety Compliance

- UL 1950
- CSA 22.2 1402C Level 3
- VDE 0806
- EN 60950

Mechanical Characteristics

Dimensions:
- Length: 127mm (5.0in)
- Width: 76.2mm (3.0in)
- Height: 30mm (1.2in)
- Weight: 0.27kgs (0.6lbs)

Output Specifications

Model	DC Output Voltage		Load Min.	Load Max.	Load @20CFM	Load Peak	Ripple P-P (2)	Total Tolerance
PSA-4005	+5V	V1	0.0A	6.0A	8.0A	8.0A	100mV	±2%
PSA-4012	+12V	V1	0.0A	3.0A	4.0A	4.0A	120mV	±2%
PSA-4015	+15V	V1	0.0A	2.5A	3.3A	3.3A	150mV	±5%
PSA-4024	+24V	V1	0.0A	1.5A	2.0A	2.0A	240mV	±2%
PSA-4031	+5.1V	V1	0.5A	3.0A	5.0A	7.0A	50mV	±2%
	+12V	V2	0.2A	2.0A	2.0A	3.0A	120mV	±5%
	-12V	V3	0.0A	0.5A	0.5A	0.5A	120mV	±5%
PSA-4032	+5.1V	V1	0.5A	4.0A	6.0A	7.0A	50mV	±2%
	+12V	V2	0.0A	0.5A	0.5A	0.5A	120mV	±5%
	-12V	V3	0.0A	0.5A	0.5A	0.5A	120mV	±5%
PSA-4033	+5.1V	V1	0.5A	3.0A	5.0A	7.0A	50mV	±2%
	+12V	V2	0.2A	2.0A	2.0A	3.0A	120mV	±5%
	-5V	V3	0.0A	0.5A	0.5A	0.5A	50mV	±5%
PSA-4034	+5.1V	V1	0.5A	3.0A	5.0A	7.0A	50mV	±2%
	+15V	V2	0.2A	2.0A	2.0A	3.0A	150mV	±5%
	-15V	V3	0.0A	0.5A	0.5A	0.5A	150mV	±5%
PSA-4035	+5.1V	V1	0.5A	3.0A	5.0A	7.0A	50mV	±2%
	+24V	V2	0.3A	1.0A	1.0A	2.0A	240mV	±5%

(1) Peak output current lasting less than 30 seconds with duty cycle less than 10%. During peak loading, peak total power must not exceed 60W.

(2) Ripple & noise is measured at 20MHz bandwidth limit by using a 10 inch twisted wire terminated with a 10µf capacitor in parallel 0.1µf ceramic capacitor, it is also necessary to connect the primary and secondary ground holes together by jumper wire or by mounting screws to metal case under evaluation.

(3) Total output power must not exceed 40W at convection cooling and 60W at 20CFM air flow condition.

PFC INC

ISO 9001 • BABT Facility Approvals

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40W Universal Input Series

PSA-4031 Series Switching Power Supply

Characteristics

AC Input Voltage
90VAC-264VAC

AC Frequency
47 to 63Hz

AC Input Current
1.0A(rms) for 115VAC
0.5A(rms) for 230VAC

DC Output
See Chart

Efficiency
70% typical at full load

Hold-up Time
16msec. at full load, 115VAC input

Overcurrent Protection
All outputs equipped with automatic recovery current limiting circuit

Overvoltage Protection
5.6V to 6.5V on main output

Operation Temperature
0 to +40˚C full rated load

Storage Temperature
-25˚C to +85˚C

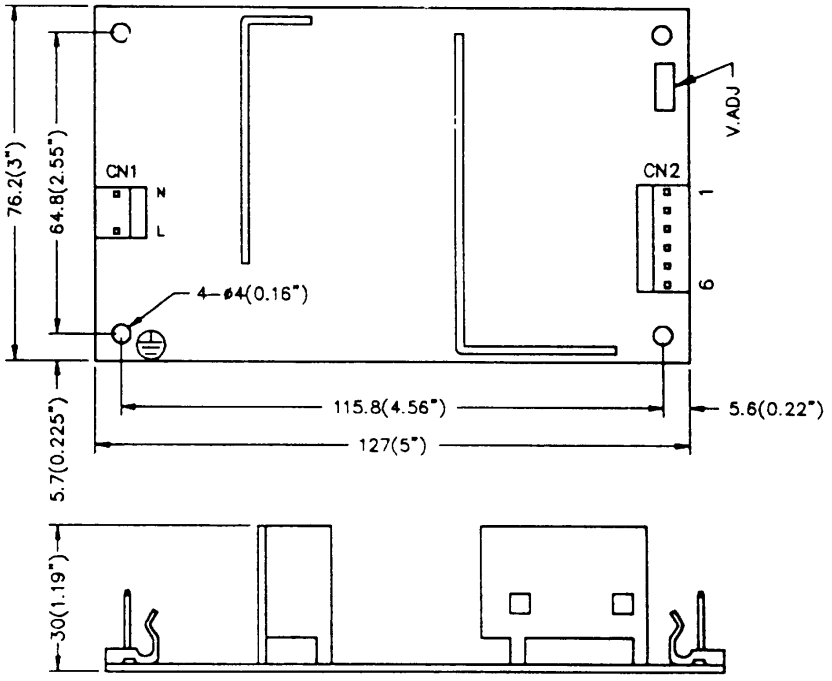
Temperature Coefficient
0.04% per ˚C

Insulation Resistance
50M ohm minimum

MTBF
Calculated
Greater than 100,000 hours, full load, 25˚C
(MIL-HDBK-217)

EMI
Meets conduction limits of FCC class B rules
VDE 0871 class B

Dimension Diagram Unit: mm (inch)



Output Connections:	V1	V2	V3	RETURN
Single	Pins 1,2,3			Pins 4,5,6
Triple	Pins 2,3	Pin 1	Pin 6	Pins 4,5

CN1: Input: Molex 09-50-3031 or equivalent CN2: Molex 09-50-3061 or equivalent

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